

### ABSTRACT OF THE INVENTION

The present invention relates to phosphatase polypeptides, nucleotide sequences encoding the phosphatase polypeptides, as well as various products and methods useful for the diagnosis and treatment of various phosphatase-related diseases and conditions. Through the use of a bioinformatics strategy, mammalian members of the MAP kinase phosphatase PTP's and STP's have been identified and their protein structure predicted.